Quick Start



Quick Start Guide for Cisco 1040 Sensor

1 Overview

This guide is designed to help you quickly set up and use your Cisco 1040 Sensor (Cisco 1040). A Cisco 1040 is a shelf-top unit that connects to the network and obtains Power over Ethernet (PoE) through a Cisco Catalyst switch. It is easy to connect your Cisco 1040. These sections explain what a Cisco 1040 does and how it fits in with CiscoWorks network management products:

Cisco 1040s and IP Communications Service Monitor

Cisco 1040s listen to Real-Time Transport (RTP) voice traffic on a Switch Port Analyzer (SPAN) port that you must configure to mirror phone ports or voice VLANs. Cisco 1040 calculates Mean Opinion Scores (MOS) and sends data at 60-second intervals to IP Communications Service Monitor (Service Monitor).

Service Monitor examines the MOS value and compares it against a user-specified threshold value. When MOS drops below the threshold, Service Monitor generates SNMP traps and sends them to up to four recipients. A single Service Monitor can receive and analyze MOS data from multiple Cisco 1040s. If you have more than one Service Monitor, you can configure Cisco 1040s to fail over to a secondary or tertiary service monitor. For more information, see *User Guide for IP Communications Service Monitor*.

Cisco 1040s and IP Communications Operations Manager

Optionally, you can use IP Communications Operations Manager (Operations Manager) to further analyze, display, and act on the traps that Service Monitor generates. When configured as a trap recipient from Service Monitor, Operations Manager generates service quality events, displays and tracks these events on a real-time dashboard, and displays and stores event history. You can configure additional event settings on Operations Manager that alert you to low MOS and to the occurrence of many service quality events during a period of time. In addition, you can configure Operations Manager to send notifications by e-mail, SNMP trap, and syslog message.

2 Preparing to Connect Your Cisco 1040

This section describes tasks that you must perform the first time you set up your network to support Cisco 1040 operations. If you have not already completed the following tasks, it is advisable to complete them so that your Cisco 1040 becomes fully operational minutes after you connect it.

Install and Configure IP Communications Service Monitor 1.0

Instructions for completing these tasks are available in *User Guide for IP Communications Service Monitor* and in Service Monitor online help:

- Using Service Monitor 1.0, perform the following tasks:
  - Set up Service Monitor. Among other parameters, you will specify a TFTP server and whether Cisco 1040s can register with the Service Monitor automatically or manually.
  - Edit configuration files for Cisco 1040s.

    Note You can edit a single default configuration file (used in automatic registration) and you can edit configuration files for each Cisco 1040 (used in manual registration).

- From the command line on the system where Service Monitor is installed, copy these files from the Service Monitor system to the TFTP server:
  - Configuration files for Cisco 1040s. These include:

    QOVDefault.CNF—The default configuration file

    QOV*macaddress*.CNF—Configuration files for specific Cisco 1040s where *macaddress* is the MAC address of the Cisco 1040
  - The binary image file for Cisco 1040s. The filename format is SvcMon<vendor code><Cisco 1040 type><major version>_<minor version><bugfix version>.img. For example:

    ```
    SvcMonAA2_24.img
    ```

Configure DHCP Server Option 150

Configure your DHCP server so that option 150 returns the IP address for the TFTP server and provides an IP address, subnet mask, default gateway, and, optionally, a DNS server for a Cisco 1040.

If you would like to configure a Cisco router as a DHCP server, see the following URL.

http://www.cisco.com/en/US/tech/tk648/tk361/technologies_tech_note09186a0080114aee.shtml

(Optional) Configure DNS

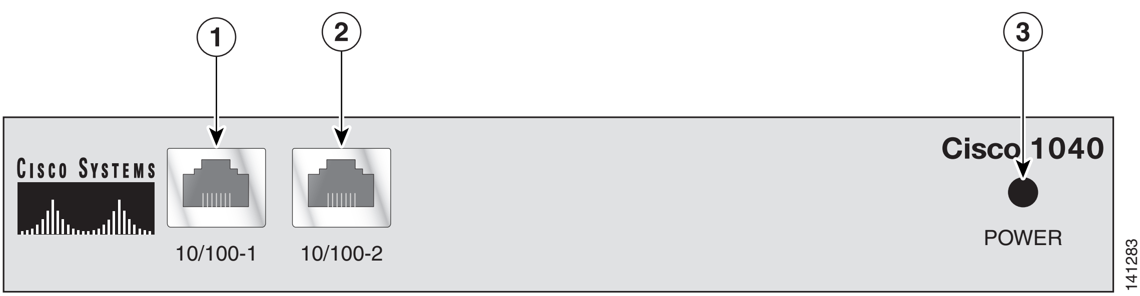
If you are using DNS in your network, configure DNS entries for Cisco 1040s.

3 Connecting Your Cisco 1040

Note Be sure to read the "Regulatory Compliance and Safety Information for Your Cisco 1040" section on page 16 before connecting your Cisco 1040.

Figure 1 shows the connections and indicators on the front panel of your Cisco 1040.

Figure 1 Cisco 1040 Cable Connections—Front Panel



1	10/100-1—Ethernet 10/100 Mbps port, standard RJ45 for connecting to the network and obtaining inline power. This port supports IEEE 802.3af standard PoE. **Note** This port does not support Cisco prestandard PoE.	**3**	Status indicator light—See Understanding the Status Indicator Light, page 8.
2	10/100-2—Ethernet 10/100 Mbps port, standard RJ45 for connecting to a SPAN or Remote SPAN (RSPAN) destination port.	—	—

Figure 2 shows the connection on the rear panel of your Cisco 1040 for an external, separately certified AC/DC power supply, for use if IEEE 802.3af-compliant PoE is not available. See Cable Specifications, page 15.

Figure 2 Cisco 1040 Cable Connections—Rear Panel



Cisco 1040 Port Usage

This section provides a list of ports used by the Cisco 1040, for your reference.

Table 1 Cisco 1040 Port Usage

Protocol	Port Number	Service Name
UDP	53	DNS
UDP	67 and 68	DHCP

Table 1 Cisco 1040 Port Usage (continued)

Protocol	Port Number	Service Name
UDP	69	TFTP—Cisco 1040 uses TFTP to get a configuration file and binary image file.
UDP	514	Syslog—Cisco 1040 sends syslog messages to Service Monitor.
TCP	2000	SCCP—Cisco 1040 uses SCCP to communicate with Service Monitor.
TCP	80	http—Cisco 1040 has a web-based user interface to view its configuration

Selecting and Configuring a Cisco Catalyst Switch

Note Cisco 1040 should be installed on the Cisco switch nearest the IP telephones that are being monitored.

To connect the Cisco 1040, you need a Cisco Catalyst switch with the following:

- A port that supports IEEE 802.3af standard Power over Ethernet (PoE).

  Note To use inline power on a Cisco Catalyst 3550, you must configure the port from the command line using this Cisco IOS command:
  `power inline delay shutdown 20 initial 30`
  For more information on Cisco Catalyst command reference guides, see Related Documentation, page 12.

- A port that is configured as a SPAN or RSPAN destination port for:
  - Ports to which phones are connected
  - VLANs

  For information about configuring SPAN and RSPAN on Cisco Catalyst switches and modules, see the following URL.

  http://www.cisco.com/en/US/products/hw/switches/ps700/products_tech_note09186a008015c612.shtml.

Connecting the Cisco 1040 to the Cisco Catalyst Switch

Before you begin this procedure, see the regulatory compliance and safety information Statement 1001—Work During Lightning Activity, page 26.

Step 1 Place the Cisco 1040 on top of the appropriate Cisco Catalyst switch.

Note The minimum height necessary to install the Cisco 1040 is 5.08 cm (2 in.). The installation of the unit should not restrict the airflow around the device. When operating the unit, ensure that no objects are placed on top of the unit.

Step 2 Connect a Category 5 straight-through cable from 10/100-1 (Ethernet port 1) on the Cisco 1040 to a port that supports IEEE 802.3af standard PoE on the Cisco Catalyst switch.

Step 3 Connect a Category 5 straight-through cable from 10/100-2 (Ethernet port 2) on the Cisco 1040 to a port that you have configured as a SPAN (or RSPAN) destination port on the Cisco Catalyst switch.

Note Verify that this port on the switch is set up to mirror a VLAN or switch ports to which phones are connected.

A startup process begins on the Cisco 1040. The status indicator on the front of the Cisco 1040 should flash amber, turn yellow, and then turn green. For more information, see Understanding the Status Indicator Light, page 8.

4 Using Your Cisco 1040

After you have successfully connected your Cisco 1040, use Service Monitor to manage and configure it. For example, you will use Service Monitor to specify the binary image filename to use, update configuration files, set the time, and reset Cisco 1040s.

This section describes information that you can obtain directly from a Cisco 1040:

- Understanding the Status Indicator Light, page 8
- Using the Cisco 1040 Web Interface, page 9

Note Information obtained directly from a Cisco 1040 is also available in another form from Service Monitor. Service Monitor displays the status of Cisco 1040s.

Understanding the Status Indicator Light

The status indicator light on the front panel of a Cisco 1040 indicates what the Cisco 1040 is currently doing. The following table lists the conditions that the status indicator light can be in and places the conditions in startup sequence order.

Startup Sequence Number	Status Indicator Light	Cisco 1040 Condition
1	Orange solid	Initial state
2	Yellow and flashing	Obtained power from the switch and is doing one of the following: **1.** Obtaining an IP address using DHCP. **2.** Accessing the TFTP server. **3.** Requesting the configuration file and the binary image file.

Startup Sequence Number	Status Indicator Light	Cisco 1040 Condition
3	Yellow solid	Registering to a service monitor. **Note** If unable to register, the Cisco 1040 returns to startup sequence number 2.
4	Green solid or green and flashing	Registered to a service monitor: • Green solid—Registered to the primary service monitor. • Green and flashing—Registered to a secondary or tertiary service monitor. When the primary service monitor is available again, Cisco 1040 registers with it again and the status indicator light turns green solid.

Using the Cisco 1040 Web Interface

You can open a web interface to view information stored on a Cisco 1040 as follows.

Step 1 In your browser, enter http://<*IP address or DNS name*> where IP address is the address of your Cisco 1040 and DNS name is the DNS name for the Cisco 1040. For example:

`http://Cisco-1040-sj`

The Device Information window displays the following information:

- **ID**—Cisco 1040 ID.
- **MAC Address**—Cisco 1040 MAC address.
- **Time stamp**—Current time on the Cisco 1040.
- **Status**—Status of the Cisco 1040; one of the following:
  - operational—Cisco 1040 is receiving RTP streams, analyzing the data, and sending syslog messages when required.
  - not communicating with receiver—The Service Monitor is unreachable.
- **Current Service Monitor**—IP address or DNS name of the service monitor to which the Cisco 1040 is registered; this could be the primary, secondary, or tertiary service monitor.

- **TFTP IP Address—**IP address of the TFTP server from which the Cisco 1040 obtains a configuration file and binary image file.
- **Software Version—**Name of the binary image file installed on the Cisco 1040.
- **Last Updated—**The last time that the configuration for the Cisco 1040 was updated.

Step 2 To view the contents of the configuration file on the TFTP server for this Cisco 1040, enter http://<*IP address or DNS name*>/Communication where IP address is the address of your Cisco 1040 and DNS name is the DNS name for the Cisco 1040. For example:

```
http://Cisco-1040-sj/Communication
```

The Communication Log File window displays the following information, which is stored in the configuration file on the TFTP server:

- **Receiver—**IP address or DNS name of each Service Monitor defined in the configuration file—primary, secondary, and tertiary—separated by semicolons.
- **ID—**ID of the Cisco 1040 that uses this configuration file.
- **Image—**Name of the binary image file that the Cisco 1040 should download and run from the TFTP server.
- **Last Updated—**The last time that this configuration file was updated on the Service Monitor system.

5 Where to Go Next

After you have performed first time installation tasks and connected a Cisco 1040, Cisco 1040 starts listening to RTP traffic and sending MOS data to Service Monitor. For more information, see the following User Guides for IP Communications Management Suite applications:

- *User Guide for IP Communications Service Monitor 1.0*
- *User Guide for IP Communications Operations Manager 1.0*

You can access these documents:

- In PDF in the Documentation directory on the respective product CD-ROM.
- In HTML and PDF on Cisco.com.

  From Cisco.com:

  a. Enter the URL,
  http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/index.htm

  b. Select the appropriate application.

  c. Select appropriate application version.

  d. Select User Guide.

- From the CiscoWorks Online help:

  a. From the CiscoWorks Homepage, click **Help**.

  b. Select the appropriate IP Communications Management Suite application.

6 Related Documentation

Note Although every effort has been made to validate the accuracy of the information in the printed and electronic documentation, you should also review the documentation on Cisco.com for any updates.

For information about configuring SPAN and RSPAN ports on Cisco Catalyst switches, see the software configuration guide for the appropriate switch model and Cisco IOS version. Use this procedure to locate software configuration guides for Cisco Catalyst switches.

Step 1 Log into Cisco.com at http://www.cisco.com.

Step 2 Select **Technical Support & Documentation > Technical Support & Documentation**.

Step 3 **Select Switches**.

Step 4 Select the appropriate model Cisco Catalyst switch.

Step 5 Select Configuration Guides.

Step 6 Select the software configuration guide for the Cisco Catalyst switch model and Cisco IOS version that is running on the switch.

For information about installing, troubleshooting, and using the applications related to Cisco 1040 see Table 2.

Note To view documents in Adobe Portable Document Format (PDF), Adobe Acrobat 4.0 or later is required. To view documents on Cisco.com, log on to your Cisco.com home page, then enter the URL, http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/index.htm.

Table 2 Related Documentation

To learn more about...	See this document	In the product package?	On the product CD?[1]	On Cisco.com?	On the Cisco Doc. CD?	In the online help?
The known product bugs (DDTS)	*Release Notes for CiscoWorks IP Communications Service Monitor 1.0* *Release Notes for CiscoWorks IP Communications Operations Manager 1.0*	No	Yes	No	Yes (PDF, HTML)	No
Performing a typical or custom installation	*Quick Start Guide for IP Communications Service Monitor 1.0*	No	Yes	No	Yes (PDF, HTML)	No
	Installation and Configuration Guide for IP Communications Operations Manager	No	Yes	No	Yes (PDF, HTML)	No
Features, tasks, and troubleshooting	*User Guide for IP Communications Service Monitor* (DOC-78170561=) *User Guide for IP Communications Operations Manager* (DOC-78170251=)	No	Yes	No[2]	Yes	Yes

1. Provided as PDF in the Documentation folder on the CD-ROM.
2. From the CiscoWorks Homepage, click Help.

7 Technical Specifications

These sections describe the technical specifications for Cisco 1040:

- Physical and Operating Environment Specifications, page 14
- Cable Specifications, page 15
- Network Port Pinouts, page 15

Physical and Operating Environment Specifications

Specification	Value or Range
Operating temperature	0° to 40°C (32° to 104°F)
Operating relative humidity	10% to 90% (non-condensing)
Height	3.8 cm (1.5 in.)
Width	24.1 cm (9.5 in.)
Depth	20.3 cm (8 in.)
Weight	.5kg (1.0 lb.)
Power	2.5A with 5vDC, 2.5A
Cables	Two (2) Category 5 cables
Regulatory	• FCC Part 15 CISPR22; ICES-003 • UL60950-1 AS/NZS 60950, CSA22.2-No. 60950-1, IEC60950-1/EN60950-1, AS/NZS 60950

Cable Specifications

- RJ-45 jack for the LAN 10/100BaseT connection (10/100-1)
- RJ-45 jack for the second LAN 10/100BaseT compliant connection (10/100-2)

Caution External AC/DC Power Supply Specification: You must use a separately certified AC-to-DC Power Supply. This Power Supply must be rated: 5vDC 2.5A certified and marked: Limited Power Source (or L.P.S.).

Network Port Pinouts

Pin Number	Function
1	DSR/RI—Data set ready/ring indicator
2	DCD—Data carrier detect
3	DTR—Data terminal ready
4	SGND—Signal Ground
5	RD—Receive Data
6	TD—Transmit Data
7	CTS—Clear to send
8	RTS—Request to send

8 Regulatory Compliance and Safety Information for Your Cisco 1040

Caution If the Cisco 1040 is used in a manner not specified by Cisco, the protection provided in the equipment might be impaired.

Caution Inline power circuits provide current through the communication cable. Use the Cisco-provided cable or a minimum 24 AWG communication cable (for example, CAT 5, 24 AWG).

Caution The Cisco 1040 has no operator-serviceable parts inside.

Regulatory compliance and safety information for Cisco 1040 includes the following sections:

- Warning Definition—Statement 1071, page 17
- Translated Warnings, page 24
- European Directives, page 40
- Regulatory Standards Compliance, page 42
- EMC Environmental Conditions for Products Installed in the European Union, page 43
- EMC Class B Notices and Warnings, page 43

Warning Definition—Statement 1071

Warning **IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

Waarschuwing **BELANGRIJKE VEILIGHEIDSINSTRUCTIES**

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

BEWAAR DEZE INSTRUCTIES

Varoitus **TÄRKEITÄ TURVALLISUUSOHJEITA**

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

SÄILYTÄ NÄMÄ OHJEET

Attention **IMPORTANTES INFORMATIONS DE SÉCURITÉ**

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS

Warnung **WICHTIGE SICHERHEITSHINWEISE**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

BEWAHREN SIE DIESE HINWEISE GUT AUF.

Avvertenza **IMPORTANTI ISTRUZIONI SULLA SICUREZZA**

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

CONSERVARE QUESTE ISTRUZIONI

Advarsel **VIKTIGE SIKKERHETSINSTRUKSJONER**

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

TA VARE PÅ DISSE INSTRUKSJONENE

Aviso **INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

GUARDE ESTAS INSTRUÇÕES

¡Advertencia! **INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES

Varning! **VIKTIGA SÄKERHETSANVISNINGAR**

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

SPARA DESSA ANVISNINGAR

Figyelem **FONTOS BIZTONSÁGI ELOÍRÁSOK**

Ez a figyelmezeto jel veszélyre utal. Sérülésveszélyt rejto helyzetben van. Mielott bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplo figyelmeztetések fordítása a készülékhez mellékelt biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján keresheto meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!

Предупреждение **ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ**

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

警告 重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

警告 安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

주의 중요 안전 지침

이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.

이 지시 사항을 보관하십시오.

تحذير إرشادات الأمان الهامة

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في أخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

Upozorenje

VAŽNE SIGURNOSNE NAPOMENE

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

SAČUVAJTE OVE UPUTE

Upozornění

DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

USCHOVEJTE TYTO POKYNY

Προειδοποίηση

ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθεις πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ

אזהרה

הוראות בטיחות חשובות

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כד לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

שמור הוראות אלה

Opomena

ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА

Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.

ЧУВАЈТЕ ГИ ОВИЕ НАПАТСТВИЈА

Ostrzeżenie **WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA**

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ

Upozornenie **DÔLEŽITÉ BEZPEČNOSTNÉ POKYNY**

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

USCHOVAJTE SI TENTO NÁVOD

Translated Warnings

This section contains the following warnings translated into multiple languages:

- Statement 1005—Circuit Breaker, page 37
- Statement 1019—Main Disconnecting Device, page 39

Statement 1004—Installation Instructions

Warning	**Read the installation instructions before connecting the system to the power source.** Statement 1004
Waarschuwing	**Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.**
Varoitus	**Lue asennusohjeet ennen järjestelmän yhdistämistä virtalähteeseen.**
Attention	**Avant de brancher le système sur la source d'alimentation, consulter les directives d'installation.**
Warnung	**Vor dem Anschließen des Systems an die Stromquelle die Installationsanweisungen lesen.**
Avvertenza	**Consultare le istruzioni di installazione prima di collegare il sistema all'alimentatore.**
Advarsel	**Les installasjonsinstruksjonene før systemet kobles til strømkilden.**
Aviso	**Leia as instruções de instalação antes de ligar o sistema à fonte de energia.**
¡Advertencia!	**Lea las instrucciones de instalación antes de conectar el sistema a la red de alimentación.**
Varning!	**Läs installationsanvisningarna innan du kopplar systemet till strömförsörjningsenheten.**
Figyelem	**Mielőtt áramforráshoz csatlakoztatná a rendszert, olvassa el az üzembe helyezési útmutatót!**

Предупреждение Перед подключением устройства к источнику электропитания ознакомьтесь с данной инструкцией по установке.

警告 在将系统与电源连接之前，请仔细阅读安装说明。

警告 必ず設置手順を読んでから、システムを電源に接続してください。

Statement 1001—Work During Lightning Activity

Warning **Do not work on the system or connect or disconnect cables during periods of lightning activity.** Statement 1001

Waarschuwing **Tijdens onweer dat gepaard gaat met bliksem, dient u niet aan het systeem te werken of kabels aan te sluiten of te ontkoppelen.**

Varoitus **Älä työskentele järjestelmän parissa äläkä yhdistä tai irrota kaapeleita ukkosilmalla.**

Attention **Ne pas travailler sur le système ni brancher ou débrancher les câbles pendant un orage.**

Warnung **Arbeiten Sie nicht am System und schließen Sie keine Kabel an bzw. trennen Sie keine ab, wenn es gewittert.**

Avvertenza **Non lavorare sul sistema o collegare oppure scollegare i cavi durante un temporale con fulmini.**

Advarsel **Utfør aldri arbeid på systemet, eller koble kabler til eller fra systemet når det tordner eller lyner.**

Aviso **Não trabalhe no sistema ou ligue e desligue cabos durante períodos de mau tempo (trovoada).**

¡Advertencia! **No operar el sistema ni conectar o desconectar cables durante el transcurso de descargas eléctricas en la atmósfera.**

Varning! **Vid åska skall du aldrig utföra arbete på systemet eller ansluta eller koppla loss kablar.**

Figyelem **Villámlás közben ne dolgozzon a rendszeren, valamint ne csatlakoztasson és ne húzzon ki kábeleket!**

Предупреждение Не следует работать с устройством, а также подключать или отключать кабели во время грозы.

警告 请勿在发生雷电时操作系统，也不要在此期间连接或断开电缆。

警告 雷が発生しているときは、システムに手を加えたり、ケーブルの接続や取り外しを行わないでください。

Statement 1021—SELV Circuit

Warning **To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables.** Statement 1021

Waarschuwing **Om elektrische schokken te vermijden, mogen veiligheidscircuits met extra lage spanning (genaamd SELV = Safety Extra-Low Voltage) niet met telefoonnetwerkspanning (TNV) circuits verbonden worden. LAN (Lokaal netwerk) poorten bevatten SELV circuits en WAN (Regionaal netwerk) poorten bevatten TNV circuits. Sommige LAN en WAN poorten gebruiken allebei RJ-45 connectors. Ga voorzichtig te werk wanneer u kabels verbindt.**

Varoitus **Jotta vältyt sähköiskulta, älä kytke pienjännitteisiä SELV-suojapiirejä puhelinverkkojännitettä (TNV) käyttäviin virtapiireihin. LAN-portit sisältävät SELV-piirejä ja WAN-portit puhelinverkkojännitettä käyttäviä piirejä. Osa sekä LAN- että WAN-porteista käyttää RJ-45-liittimiä. Ole varovainen kytkiessäsi kaapeleita.**

Attention **Pour éviter une électrocution, ne raccordez pas les circuits de sécurité basse tension (Safety Extra-Low Voltage ou SELV) à des circuits de tension de réseau téléphonique (Telephone Network Voltage ou TNV). Les ports du réseau local (LAN) contiennent des circuits SELV et les ports du réseau longue distance (WAN) sont munis de circuits TNV. Certains ports LAN et WAN utilisent des connecteurs RJ-45. Raccordez les câbles en prenant toutes les précautions nécessaires.**

Warnung **Zur Vermeidung von Elektroschock die Sicherheits-Kleinspannungs-Stromkreise (SELV-Kreise) nicht an Fernsprechnetzspannungs-Stromkreise (TNV-Kreise) anschließen. LAN-Ports enthalten SELV-Kreise, und WAN-Ports enthalten TNV-Kreise. Einige LAN- und WAN-Ports verwenden auch RJ-45-Steckverbinder. Vorsicht beim Anschließen von Kabeln.**

Avvertenza **Per evitare scosse elettriche, non collegare circuiti di sicurezza a tensione molto bassa (SELV) ai circuiti a tensione di rete telefonica (TNV). Le porte LAN contengono circuiti SELV e le porte WAN contengono circuiti TNV. Alcune porte LAN e WAN fanno uso di connettori RJ-45. Fare attenzione quando si collegano cavi.**

Advarsel **Unngå å koble lavspenningskretser (SELV) til kretser for telenettspenning (TNV), slik at du unngår elektrisk støt. LAN-utganger inneholder SELV-kretser og WAN-utganger inneholder TNV-kretser. Det finnes både LAN-utganger og WAN-utganger som bruker RJ-45-kontakter. Vær forsiktig når du kobler kabler.**

Aviso **Para evitar choques eléctricos, não conecte os circuitos de segurança de baixa tensão (SELV) aos circuitos de tensão de rede telefónica (TNV). As portas LAN contêm circuitos SELV e as portas WAN contêm circuitos TNV. Algumas portas LAN e WAN usam conectores RJ-45. Tenha o devido cuidado ao conectar os cabos.**

¡Advertencia! **Para evitar la sacudida eléctrica, no conectar circuitos de seguridad de voltaje muy bajo (safety extra-low voltage = SELV) con circuitos de voltaje de red telefónica (telephone network voltage = TNV). Los puertos de redes de área local (local area network = LAN) contienen circuitos SELV, y los puertos de redes de área extendida (wide area network = WAN) contienen circuitos TNV. En algunos casos, tanto los puertos LAN como los WAN usan conectores RJ-45. Proceda con precaución al conectar los cables.**

Varning! **För att undvika elektriska stötar, koppla inte säkerhetskretsar med extra låg spänning (SELV-kretsar) till kretsar med telefonnätspänning (TNV-kretsar). LAN-portar innehåller SELV-kretsar och WAN-portar innehåller TNV-kretsar. Vissa LAN- och WAN-portar är försedda med RJ-45-kontakter. Iaktta försiktighet vid anslutning av kablar.**

Figyelem **Az áramütés elkerülése érdekében ne csatlakoztasson biztonságos törpefeszültségű (SELV) áramköröket telefonhálózati feszültségű (TNV) áramkörökhöz. A LAN portok SELV áramköröket, a WAN portok TNV áramköröket tartalmaznak. Bizonyos LAN és WAN portok egyaránt RJ-45 csatlakozókkal vannak felszerelve. Óvatosan járjon el a kábelek csatlakoztatásakor!**

Предупреждение Во избежание поражения электрическим током не подключайте цепи безопасного низковольтного напряжения (SELV) к цепям с напряжением телефонной сети (TNV). Порты LAN подключены к цепям SELV, а порты WAN — к цепям TNV. Для некоторых портов LAN и WAN используются одинаковые разъемы — RJ-45. При подключении кабелей будьте внимательны.

警告 为避免电击，请勿将安全特低电压（SELV）电路连接到电话网电压（TNV）电路上。LAN 端口属 SELV 电路，而 WAN 端口属 TNV 电路。某些 LAN 和 WAN 端口都使用 RJ-45 接头。连接电缆时请务必小心。

警告 感電事故を防ぐため、Safety Extra-low Voltage（SELV）回路をTelephone-Network Voltage（TNV;電話網電圧）回路に接続しないでください。LANポートにはSELV回路、WANポートにはTNV回路が使用されています。LANポートおよびWANポートによっては、どちらもRJ-45コネクタが使用されている場合があります。ケーブルを接続するときは注意してください。

Statement 1074—Comply with Local and National Electrical Codes

Warning **Installation of the equipment must comply with local and national electrical codes.** Statement 1074

Waarschuwing **Bij installatie van de apparatuur moet worden voldaan aan de lokale en nationale elektriciteitsvoorschriften.**

Varoitus **Laitteisto tulee asentaa paikallisten ja kansallisten sähkömääräysten mukaisesti.**

Attention **L'équipement doit être installé conformément aux normes électriques nationales et locales.**

Warnung **Die Installation der Geräte muss den Sicherheitsstandards entsprechen.**

Avvertenza **L'installazione dell'impianto deve essere conforme ai codici elettrici locali e nazionali.**

Advarsel **Installasjon av utstyret må samsvare med lokale og nasjonale elektrisitetsforskrifter.**

Aviso **A instalação do equipamento tem de estar em conformidade com os códigos eléctricos locais e nacionais.**

¡Advertencia! **La instalación del equipo debe cumplir con las normativas de electricidad locales y nacionales.**

Varning! **Installation av utrustningen måste ske i enlighet med gällande elinstallationsföreskrifter.**

Figyelem **A berendezés üzembe helyezését a helyi és a nemzeti elektromossági előírások figyelembevételével kell elvégezni.**

Предупреждение **Установка оборудования должна соответствовать местным и национальным электротехническим нормам.**

警告　设备安装必须符合本地与本国电气法规。

警告　機器の取り付けは地域および国内の電気工事規定に遵守する必要があります。

Statement 1040—Product Disposal

Warning **Ultimate disposal of this product should be handled according to all national laws and regulations.** Statement 1040

Waarschuwing **Het uiteindelijke wegruimen van dit product dient te geschieden in overeenstemming met alle nationale wetten en reglementen.**

Varoitus **Tämä tuote on hävitettävä kansallisten lakien ja määräysten mukaisesti.**

Attention **La mise au rebut ou le recyclage de ce produit sont généralement soumis à des lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.**

Warnung **Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.**

Avvertenza **Lo smaltimento di questo prodotto deve essere eseguito secondo le leggi e regolazioni locali.**

Advarsel **Endelig kassering av dette produktet skal være i henhold til alle relevante nasjonale lover og bestemmelser.**

Aviso **Deitar fora este produto em conformidade com todas as leis e regulamentos nacionais.**

¡Advertencia! **Al deshacerse por completo de este producto debe seguir todas las leyes y reglamentos nacionales.**

Varning!	**Vid deponering hanteras produkten enligt gällande lagar och bestämmelser.**
Figyelem	**A készülék végső elhelyezéséről az adott országban érvényes törvények és előírások szerint kell intézkedni.**
Предупреждение	Окончательная установка данного изделия должна выполняться в соответствии со всеми региональными и местными правилами и нормами.
警告	本产品的废弃处理应根据所有国家的法律和规章进行。
警告	この製品を廃棄処分する際は、各国の法律および規制に従って取り扱ってください。
주의	해당 국가의 관련 법규 및 규정에 따라 이 장치를 폐기해야 합니다.
Aviso	**O descarte definitivo deste produto deve estar de acordo com todas as leis e regulamentações nacionais.**
Advarsel	**Endelig bortskaffelse af dette produkt skal ske i henhold til gældende love og regler.**
تحذير	**عند التخلص من المنتج يجب اتباع القوانين والتشريعات المحلية.**
Upozorenje	**Zbrinjavanje ovoga proizvoda u otpad treba provesti u skladu s važećim zakonima i odredbama.**
Upozornění	**Upozornění: Likvidace tohoto výrobku musí být provedena podle platných zákonů a předpisů.**
Προειδοποίηση	Η τελική απόρριψη αυτού του προϊόντος πρέπει να γίνεται σύμφωνα με όλους τους εθνικούς νόμους και κανονισμούς.

אזהרה	סילוק סופי של מוצר זה חייב להיות בהתאם להנחיות ולחוקי המדינה.
Opomena	Крајното фрлање на овој производ треба да се изврши во согласност со сите национални закони и прописи.
Ostrzeżenie	**Ostateczna likwidacja tego urządzenia po jego wycofaniu z eksploatacji powinna odbywać się zgodnie z przepisami krajowymi.**
Upozornenie	**Upozornenie Likvidácia tohto výrobku musí byť vykonaná podľa platných zákonov a predpisov.**

Statement 353—This Product Must be Connected

Warning	**This product must be connected to a power-over-ethernet (PoE) IEEE 802.3af compliant power source or an IEC60950 compliant limited power source.** Statement 353
Waarschuwing	**Dit product moet worden verbonden met een stroomvoorziening die compatibel is met PoE (power-over-ethernet) IEEE 802.3af of een beperkte stroomvoorziening die compatibel is met IEC60950.**
Varoitus	**Tämä tuote on liitettävä PoE (power-over-ethernet) IEEE 802.3af -yhteensopivaan virtalähteeseen tai IEC60950-yhteensopivaan rajoitettuun virtalähteeseen.**
Attention	**Ce produit doit être connecté à une source d'alimentation électrique par câble Ethernet (PoE) conforme à la norme IEEE 802.3af ou à une source d'alimentation limitée conforme à la norme IEC60950.**

Warnung Dieses Produkt muss entweder an eine Stromquelle angeschlossen sein, die mit dem IEEE 802.3af-Standard Power-over-Ethernet (PoE) kompatibel ist oder an eine Stromquelle für geringe Leistungen, die IEC60950-kompatibel ist.

Avvertenza Questo prodotto deve essere connesso a una fonte di alimentazione di tipo PoE (power-over-ethernet) conforme a IEEE 802.3af o a una fonte di alimentazione conforme a IEC60950.

Advarsel Dette produktet må være koblet til en Power-over-Ethernet (PoE) IEEE 802.3af-kompatibel strømkilde eller en IEC60950-kompatibel begrenset strømkilde.

Aviso Este produto tem de estar ligado a uma fonte de alimentação compatível com a norma IEEE 802.3af, também conhecida pela sigla Power over Ethernet (PoE), ou a uma fonte de alimentação limitada compatível com a norma IEC60950.

¡Advertencia! Debe conectar este producto a una fuente de alimentación sobre ethernet (PoE) conforme con el estándar IEEE 802.3af, o a una fuente limitada conforme con el estándar IEC60950.

Varning! Denna produkt måste vara ansluten till en PoE IEEE 802.3af-kompatibel strömkälla eller en IEC60950-kompatibel begränsad strömkälla.

Figyelem Ezt a készüléket vagy az IEEE 802.3af szabványnak megfelelő, a tápellátást Etherneten keresztül kapó (power-over-ethernet, PoE) tápforráshoz, vagy az IEC60950 szabványnak megfelelő, korlátozott tápforráshoz kell csatlakoztatni.

Предупреждение Это устройство может быть подключено к источнику питания для подачи питания по сети Ethernet (PoE), удовлетворяющему требованиям стандарта IEEE 802.3af, или источнику питания ограниченного применения, удовлетворяющему требованиям стандарта IEC60950.

警告	本产品必须连接到以太网供电型（Power-Over-Ethernet，简称PoE）IEEE802.3af 电源或 IEC60950 限制型电源。
警告	この製品はPoE方式のIEEE 802.3af対応の電源またはIEC60950対応の制限電源に接続してください。

When using an AC/DC power supply, the following warnings apply:

- Statement 19—TN Power Warning, page 35
- Statement 331—Power Supply Installation Warning, page 36
- Statement 1005—Circuit Breaker, page 37
- Statement 1019—Main Disconnecting Device, page 39

Statement 19—TN Power Warning

Warning	**The device is designed to work with TN power systems.** Statement 19
Waarschuwing	**Het apparaat is ontworpen om te functioneren met TN energiesystemen.**
Varoitus	**Koje on suunniteltu toimimaan TN-sähkövoimajärjestelmien yhteydessä.**
Attention	**Ce dispositif a été conçu pour fonctionner avec des systèmes d'alimentation TN.**
Warnung	**Das Gerät ist für die Verwendung mit TN-Stromsystemen ausgelegt.**
Avvertenza	**Il dispositivo è stato progettato per l'uso con sistemi di alimentazione TN.**
Advarsel	**Utstyret er utfomet til bruk med TN-strømsystemer.**
Aviso	**O dispositivo foi criado para operar com sistemas de corrente TN.**
¡Advertencia!	**El equipo está diseñado para trabajar con sistemas de alimentación tipo TN.**

Varning!	**Enheten är konstruerad för användning tillsammans med elkraftssystem av TN-typ.**
Figyelem	**A készülék TN tápellátással működik.**
Предупреждение	Устройство предназначено для работы с системами электропитания без непосредственного заземления (TN-система).
警告	此设备设计用于 TN 电源系统。
警告	この装置は、TN 電源システムで動作するように設計されています。

Statement 331—Power Supply Installation Warning

Warning	**The power supply must be placed indoors.** Statement 331
Waarschuwing	**De stroomtoevoer moet binnen worden geplaatst.**
Varoitus	**Tehonlähde on sijoitettava sisätiloihin.**
Attention	**Le bloc d'alimentation électrique doit être placé à l'intérieur.**
Warnung	**Die Stromversorgungsquelle darf nicht im Freien aufgestellt werden.**
Avvertenza	**L'alimentatore deve essere posto in un luogo interno.**
Advarsel	**Strømkilden skal være plassert innendørs.**
Aviso	**A fonte de alimentação deve ser instalada no interior.**

¡Advertencia!	**El suministro de energía debe estar ubicado en un lugar cubierto y no al aire libre.**
Varning!	**Strömkällan måste vara placerad inomhus.**
Figyelem	**A tápegységet beltérben kell elhelyezni.**
Предупреждение	Блок питания должен располагаться в помещении.
警告	电源必须置于室内。
警告	電源装置は屋内に設置する必要があります。

Statement 1005—Circuit Breaker

Warning	**This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)** Statement 1005
Waarschuwing	**Dit product is afhankelijk van de installatie van het gebouw voor beveiliging tegen kortsluiting (overstroom). Controleer of de beschermingsinrichting niet meer dan: 120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL) is.**
Varoitus	**Tämä tuote on riippuvainen rakennukseen asennetusta oikosulkusuojauksesta (ylivirtasuojauksesta). Varmista, että suojalaitteen mitoitus ei ole yli: 120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)**
Attention	**Pour ce qui est de la protection contre les courts-circuits (surtension), ce produit dépend de l'installation électrique du local. Vérifiez que le courant nominal du dispositif de protection n'est pas supérieur à : 120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)**

Warnung Dieses Produkt ist darauf angewiesen, dass im Gebäude ein Kurzschluss- bzw. Überstromschutz installiert ist. Stellen Sie sicher, dass der Nennwert der Schutzvorrichtung nicht mehr als:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL) beträgt.

Avvertenza Questo prodotto dipende dall'impianto dell'edificio per quanto riguarda la protezione contro cortocircuiti (sovracorrente). Assicurarsi che il dispositivo di protezione non abbia un rating superiore a:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Advarsel Dette produktet er avhengig av bygningens installasjoner av kortslutnings (overstrøm)-beskyttelse. Påse at verneenheten ikke er merket høyere enn:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Aviso Este produto depende das instalações existentes para proteção contra curto-circuito (sobrecarga). Assegure-se de que o fusível ou disjuntor não seja superior a:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

¡Advertencia! Este equipo utiliza el sistema de protección contra cortocircuitos (o sobrecorrientes) del edificio. Asegúrese de que el dispositivo de protección no sea superior a:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Varning! Denna produkt är beroende av i byggnaden installerat kortslutningsskydd (överströmsskydd). Kontrollera att skyddsanordningen inte har högre märkvärde än:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Figyelem A termék védelmi rendszerének része az épület kábelezésébe épített rövidzárlat (túláram) elleni védelem is. Gondoskodjon róla, hogy a készüléket védő eszköz legfeljebb a következő áramerősségre legyen méretezve:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Предупреждение Защита устройства от короткого замыкания (перегрузки) осуществляется с помощью оборудования, являющегося частью электропроводки здания. Убедитесь, что номинал защитного устройства не превышает:
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

警告 此产品的短路（过载电流）保护由建筑物的供电系统提供。确保短路保护设备的额定电流不大于：
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

警告 この製品は、設置する建物にショート（過電流）保護機構が備わっていることを前提に設計されています。保護装置の定格が以下の値を超えないことを確認してください。
120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)

Statement 1019—Main Disconnecting Device

Warning **The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.** Statement 1019

Waarschuwing **De combinatie van de stekker en het elektrisch contactpunt moet te allen tijde toegankelijk zijn omdat deze het hoofdmechanisme vormt voor verbreking van de aansluiting.**

Varoitus **Pistoke/liitinkohta toimii pääkatkaisumekanismina. Pääsy siihen on pidettävä aina esteettömänä.**

Attention **La combinaison de prise de courant doit être accessible à tout moment parce qu'elle fait office de système principal de déconnexion.**

Warnung **Der Netzkabelanschluß am Gerät muß jederzeit zugänglich sein, weil er als primäre Ausschaltvorrichtung dient.**

Avvertenza **Il gruppo spina-presa deve essere sempre accessibile, poiché viene utilizzato come dispositivo di scollegamento principale.**

Advarsel **Kombinasjonen støpsel/uttak må alltid være tilgjengelig ettersom den fungerer som hovedfrakoplingsenhet.**

Aviso **A combinação ficha-tomada deverá ser sempre acessível, porque funciona como interruptor principal.**

¡Advertencia! **El conjunto de clavija y toma ha de encontrarse siempre accesible ya que hace las veces de dispositivo de desconexión principal.**

Varning! **Man måste alltid kunna komma åt stickproppen i uttaget, eftersom denna koppling utgör den huvudsakliga frånkopplingsanordningen.**

Figyelem **A dugaszolóaljzat és a dugasz együttesének mindig hozzáférhetőnek kell lennie, mivel ez szolgál főmegszakítóként.**

Предупреждение Штепсельная розетка всегда должна быть доступна, поскольку она служит основным устройством отключения.

警告 插销和插座必须便于随时插拔，因为它是主要断电设备。

警告 主要な切断装置となるので、プラグとソケットは常に手が届く場所に置く必要があります。

European Directives

Statement 275—Declaration of Conformity with Regard to the Directives 73/23/EEC and 89/336/EEC as amended by Directive 93/68/EEC

For specifics about which standards have been applied, refer to the Declaration of Conformity.

English: **This equipment is in compliance with the essential requirements and other provisions of Directives 73/23/EEC and 89/336/EEC as amended by Directive 93/68/EEC.**

Dansk: **Dette udstyr er i overensstemmelse med de ufravigelige hensyn og andre bestemmelser i direktiv 73/23/EEC og 89/336/EEC som ændred i direktiv 93/68/EEC.**

Deutsch: **Dieses Gerät entspricht den wesentlichen Anforderungen und weiteren Bestimmungen der Richtlinien 73/23/EWG und 89/336/EWG mit der Ergänzung durch Richtlinie 93/68/EWG.**

Español: **Este equipo cumple con los requisitos esenciales y otras disposiciones de las Directrices 73/23/EEC y 89/336/EEC de acuerdo a las modificaciones de la Directriz 93/68/EEC.**

Προειδοποίηση Αυτός ο εξοπλισμός συμμορφώνεται με τις ουσιώδεις απαιτήσεις και τις λοιπές διατάξεις των Οδηγιών 73/23/ΕΟΚ και 89/336/ΕΟΚ, όπως τροποποιήθηκαν με την Οδηγία 93/68/ΕΟΚ.

Français: **Cet appareil remplit les principales conditions requises et autres dispositions des Directives 73/23/EEC et 89/336/EEC, modifiées par la Directive 93/68/EEC.**

Íslenska: **Þessir búnaður samrýmist lögboðnum kröfum og öðrum ákvæðum tilskipana 73/23/EBE og 89/336/EBE, með breytingum skv. tilskipun 93/68/EBE.**

Italiano: **Questa apparecchiatura è conforme ai requisiti essenziali e altre disposizioni delle Direttive 73/23/EEC e 89/336/EEC modificate con la Direttiva 93/68/EEC.**

Nederlands: **Deze apparatuur voldoet aan de belangrijkste eisen en andere voorzieningen van richtlijnen 73/23/EEC en 89/336/EEC zoals gewijzigd door richtlijn 93/68/EEC.**

Norsk: **Dette utstyret samsvarer med de vesentligste kravene og andre regler i direktivene 73/23/EEC og 89/336/EEC samt i tilleggsdirektiv 93/68/EEC.**

Português: **Este equipamento satisfaz os requisitos essenciais e outras provisões das Directivas 73/23/EEC e 89/336/EEC, conforme amendados pela Directiva 93/68/EEC.**

Română Prin prezenta, noi Cisco Systems România SRL, declarăm pe propria răspundere că produsul de mai jos, îndeplineşte principalele cerinţe de conformitate cu Directiva Europeană 89/336/EEC, 73/23/EEC(R&TTE)

CiscoWorks IPC Sensor A 1.0 CWIPCSA-1.0-K9

Suomalainen: **Tämä laite on direktiivien 73/23/ETY ja 89/336/ETY (kuten muutettu direktiivissä 93/68/ETY) keskeisten vaatimusten ja määräysten mukainen.**

Svenska: **Denna utrustning uppfyller de väsentliga kraven och andra villkor i direktiven 73/23/EEC och 89/336/EEC enligt ändringarna i direktiv 93/68/EEC.**

Regulatory Standards Compliance

This section includes all regulatory, safety, and electromagnetic compatibility (EMC) standards. The Cisco 1040 is in compliance with national and international standards as described in Table 3.

Table 3 Regulatory Standards Compliance

Specification	Description
Regulatory Compliance	Products with the CE Marking indicate compliance with the 89/336/EEC and 73/23/EEC directives, which include the safety and EMC standards listed.
Safety	UL 60950 CAN/CSA-C22.2 No. 60950 EN 60950 IEC 60950 AS/NZS 60950 TS 001
EMC	47CFR Part 15 (FCC) Class A AS/NZS CISPR22 Class A CISPR22 Class B CNS13438 Class B EN55022 Class B ICES003 Class B VCCI Class B EN50082-1 EN61000-6-1 EN55024 EN61000-3-2 EN61000-3-3

For specific details about the years, revisions and relevant amendments please refer to the applicable declaration of conformity available at http://www.cisco.com.

EMC Environmental Conditions for Products Installed in the European Union

This section applies to products to be installed in the European Union.

The equipment is intended to operate under the following environmental conditions with respect to EMC:

- A separate defined location under user's control.
- Earthing and bonding shall meet the requirements of ETS 300 253 or CCITT K27.
- AC power distribution shall be one of the following types, where applicable: TN-S and TN-C as defined in IEC 364-3.

In addition, if equipment is operated in a domestic environment, interference may occur.

EMC Class B Notices and Warnings

This section includes the EMC Class B warnings for the Cisco 1040.

Class B Notice for FCC

Modifying the equipment without Cisco's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Class B Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Statement 295—Class B Warning for Korea

Warning **This is a Class B Device and is registered for EMC requirements for residential use. This device can be used not only in residential areas but in all other areas.**

주의 B급 기기 이 기기는 가정용으로 전자파 적합 등록을 한 기기로 서 주거지역 내에서는 물론 모든 지역에서 사용할 수 있습니다.

Statement 157—VCCI Compliance for Class B Equipment

Warning **This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.**

警告 VCC準拠クラスB機器 （日本）
この機器が、Information Technology EquipmentのVoluntary Control Council for Interference（VCCI）の規格に準拠したクラスB製品です。この機器をラジオやテレビ受信機の近くで使用した場合、混信を発生する恐れがあります。本機器の設置および使用に際しては、取扱い説明書に従ってください。

9 Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

http://www.cisco.com/techsupport

You can access the Cisco website at this URL:

http://www.cisco.com

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Product Documentation DVD

Cisco documentation and additional literature are available in the Product Documentation DVD package, which may have shipped with your product. The Product Documentation DVD is updated regularly and may be more current than printed documentation.

The Product Documentation DVD is a comprehensive library of technical product documentation on portable media. The DVD enables you to access multiple versions of hardware and software installation, configuration, and command guides for Cisco products and to view technical documentation in HTML. With the DVD, you have access to the same documentation that is found on the Cisco website without being connected to the Internet. Certain products also have .pdf versions of the documentation available.

The Product Documentation DVD is available as a single unit or as a subscription. Registered Cisco.com users (Cisco direct customers) can order a Product Documentation DVD (product number DOC-DOCDVD=) from Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Ordering Documentation

Beginning June 30, 2005, registered Cisco.com users may order Cisco documentation at the Product Documentation Store in the Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Nonregistered Cisco.com users can order technical documentation from 8:00 a.m. to 5:00 p.m. (0800 to 1700) PDT by calling 1 866 463-3487 in the United States and Canada, or elsewhere by calling 011 408 519-5055. You can also order documentation by e-mail at tech-doc-store-mkpl@external.cisco.com or by fax at 1 408 519-5001 in the United States and Canada, or elsewhere at 011 408 519-5001.

10 Documentation Feedback

You can rate and provide feedback about Cisco technical documents by completing the online feedback form that appears with the technical documents on Cisco.com.

You can send comments about Cisco documentation to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

11 Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you can perform these tasks:

- Report security vulnerabilities in Cisco products.
- Obtain assistance with security incidents that involve Cisco products.
- Register to receive security information from Cisco.

A current list of security advisories and notices for Cisco products is available at this URL:

http://www.cisco.com/go/psirt

If you prefer to see advisories and notices as they are updated in real time, you can access a Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed from this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you might have identified a vulnerability in a Cisco product, contact PSIRT:

- Emergencies—security-alert@cisco.com

  An emergency is either a condition in which a system is under active attack or a condition for which a severe and urgent security vulnerability should be reported. All other conditions are considered nonemergencies.

- Nonemergencies—psirt@cisco.com

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532

Tip We encourage you to use Pretty Good Privacy (PGP) or a compatible product to encrypt any sensitive information that you send to Cisco. PSIRT can work from encrypted information that is compatible with PGP versions 2.*x* through 8.*x*.

Never use a revoked or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one linked in the Contact Summary section of the Security Vulnerability Policy page at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

The link on this page has the current PGP key ID in use.

12 Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your reseller.

Cisco Technical Support & Documentation Website

The Cisco Technical Support & Documentation website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, at this URL:

http://www.cisco.com/techsupport

Access to all tools on the Cisco Technical Support & Documentation website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

http://tools.cisco.com/RPF/register/register.do

Note Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support & Documentation website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI tool offers three search options: by product ID or model name; by tree view; or for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco engineer. The TAC Service Request Tool is located at this URL:

http://www.cisco.com/techsupport/servicerequest

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)
EMEA: +32 2 704 55 55
USA: 1 800 553-2447

For a complete list of Cisco TAC contacts, go to this URL:

http://www.cisco.com/techsupport/contacts

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is "down," or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

13 Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, documentation, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:

  http://www.cisco.com/go/marketplace/

- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

  http://www.ciscopress.com

- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:

  http://www.cisco.com/packet

- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:

  http://www.cisco.com/go/iqmagazine

  or view the digital edition at this URL:

  http://ciscoiq.texterity.com/ciscoiq/sample/

- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

  http://www.cisco.com/ipj

- Networking products offered by Cisco Systems, as well as customer support services, can be obtained at this URL:

  http://www.cisco.com/en/US/products/index.html

- Networking Professionals Connection is an interactive website for networking professionals to share questions, suggestions, and information about networking products and technologies with Cisco experts and other networking professionals. Join a discussion at this URL:

  http://www.cisco.com/discuss/networking

- World-class networking training is available from Cisco. You can view current offerings at this URL:

  http://www.cisco.com/en/US/learning/index.html

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